rayzer

Installation Manual

Visualeyes

Important!

Please read the entire installation manual carefully before attempting to install your Rayzer light.

Manufacturer's liability

The manufacturer's liability does not extend to:

a) Faults caused by the customer's use of the products with other equipment or accessories in a manner that affects their operation.
b) Faults caused by changes to or interference with the products carried out by the customer that are not performed in accordance with the manufacturer's instructions.
c) Faults caused by the customer's use of the products in a manner other than that laid down in the user documentation or by the negligence of the customer, his staff or a third party or by other circumstances outside the manufacturer's control.
d) Poor/impaired operation resulting from incorrect fitting/installation.

Introduction

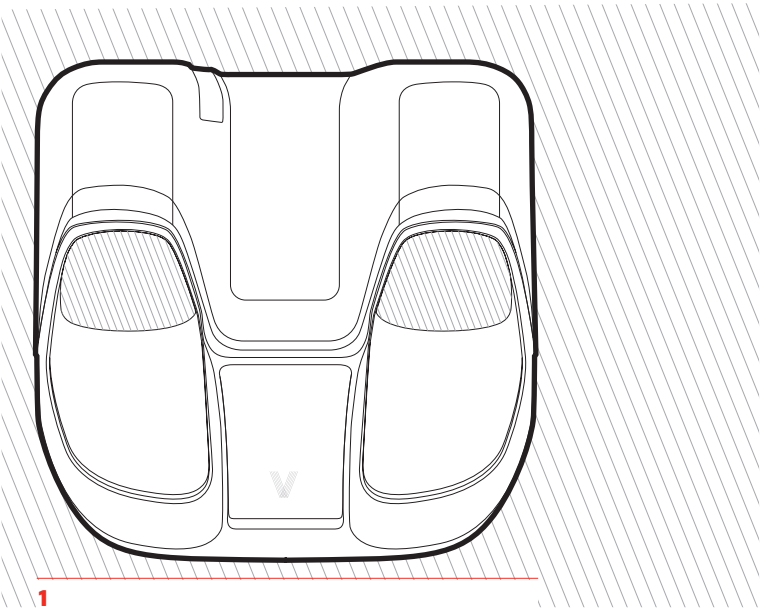
Thank you for choosing Rayzer. We hope that you will find your unique auxiliary light extremely useful and that it will serve you well for a long time. If you have any questions or concerns about your Rayzer, contact your retailer.

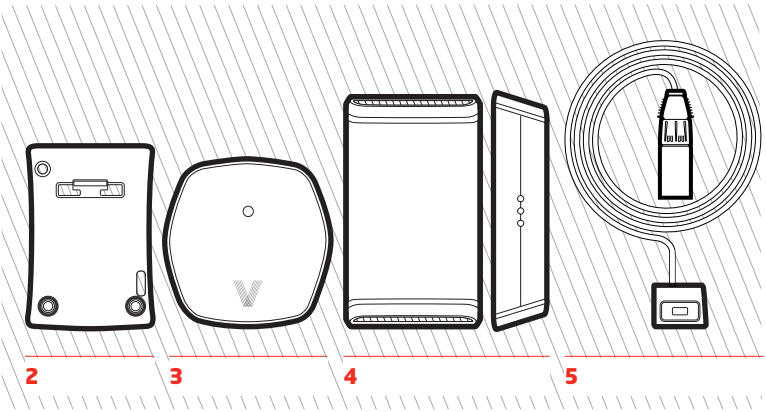
Rayzer is comprised of five separate components: the actual light unit, the mounting bracket, the transmitter unit, a 12V adapter and a cable.

In addition to the five Rayzer components, the package also contains a wiper cloth and special clamps for use during assembly.

The Rayzer was designed to be easily installed by any driver. However, we do encourage professional installation through a dealership or professional mechanic – especially if you have Xenon high and low beams – to ensure the best performance from your Rayzer. If a professional installation is not available or not an option for you, then carefully follow these instructions, and you'll find that you can manage just fine on your own – and even better if there are two of you!

1 Light unit
2 Mounting bracket
3 Transmitter unit
4 12V adapter
5 Cable





1
Mounting the Rayzer transmitter unit in the engine compartment

The transmitter unit automatically synchronizes the car's headlights with Rayzer. This way, Rayzer automatically switches on and off as you turn your high beams on and off.

In cars with conventional high (halogen) beams, connect the transmitter's red cable to the positive terminal of the high-beam light. Attach the transmitter unit's black cable to a grounding point.

In cars with that use Xenon bulbs for both high and low beams, you must first localize the control signal for the high beams. A professional mechanic at a dealership or garage should be able to help you. Attach the red cable of the transmitter unit to the control-signal connection point and attach the black cable to a grounding point.

Place the transmitter as close to the car's cabin as possible for best results.

2
Install the Rayzer mounting bracket on the inside of the windshield

The mounting bracket was designed to allow the Rayzer to be attached and removed easily, maximizing its portability. When disconnecting Rayzer, first carefully remove the cable without letting it be pulled out along with the unit. It is important that the mounting bracket is positioned properly and firmly adhered to the windshield. PLEASE NOTE: Do not, under any circumstances, replace the special adhesive tape that is on the mounting bracket with any other type of tape. Likewise, do not reuse the tape if you replace the windshield.

2

Before mounting the attachment, you must thoroughly clean the windshield with the enclosed wiper cloth. We also recommend that you ask someone to help you during assembly—it will make the job much simpler.

a

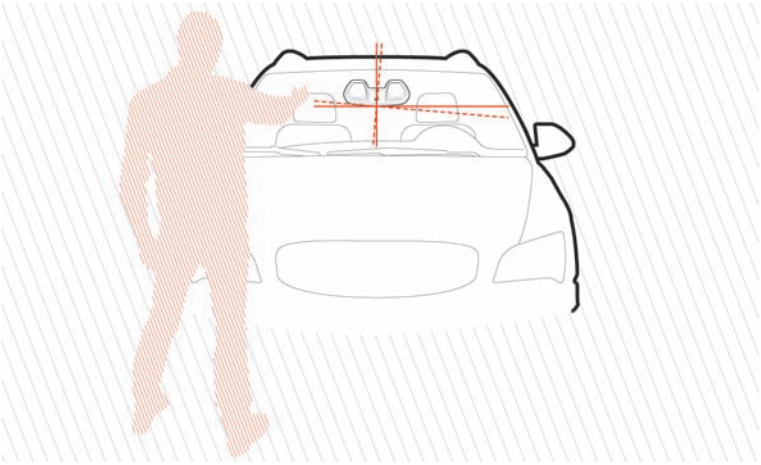
Adjust the rear-view mirror for the shortest person who normally drives the car. This ensures a proper fit and unobstructed view for everyone who will be driving the car.

b

Position the Rayzer light unit against the windshield and move it as far up as possible without the unit coming up against the mirror.

c

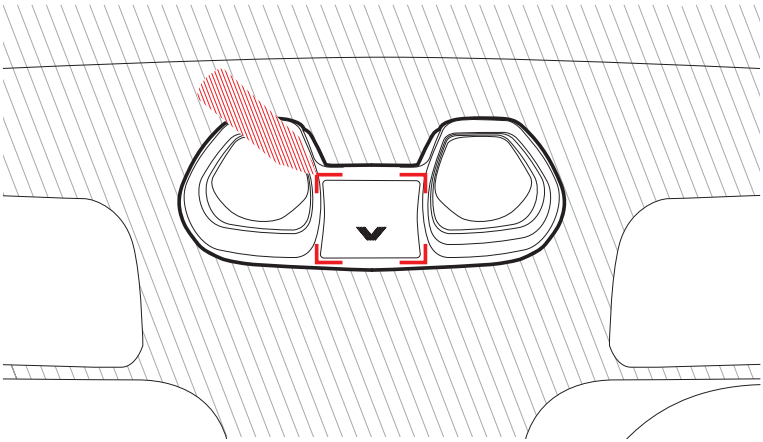
Ask your assistant to stand right in front of the car and check that the Rayzer is straight and correctly positioned.



2

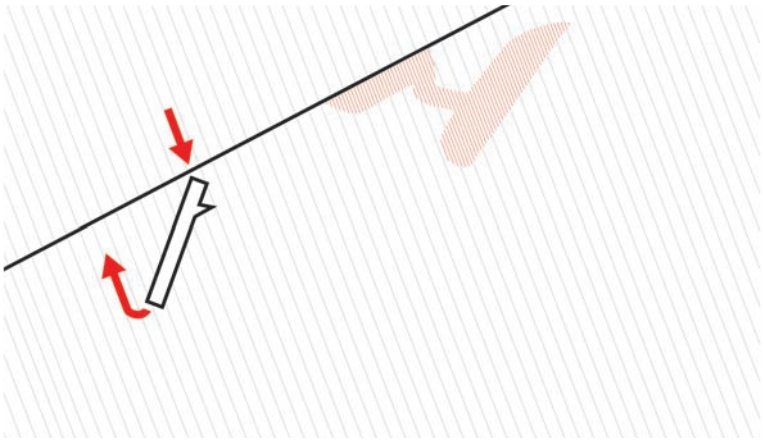
d

When you're satisfied that the Rayzer is correctly positioned, ask your assistant to mark the corners of the mounting bracket with a whiteboard marker on the outside of the windshield. Then you can remove the light unit.



e

Remove the protective tape and position the mounting bracket exactly between the marks. To minimize air bubbles, begin at the top short side and work your way downward.



3
Connecting the cable

The cable connecting the light unit to the 12V adapter should preferably run down the edge of the windshield and be attached with the enclosed clamps.
PLEASE NOTE: Do not shorten or extend the cable.

4
Mounting the 12V adapter

Naturally, the light unit will need current before it can produce a beam. We recommend that the 12V adapter be mounted on the passenger side of the transmission tunnel in the vicinity of the 12V outlet. Use the enclosed special tape to secure the adapter in place. Allow for adequate ventilation when positioning the 12V adapter. For example, it should not be placed inside the glove compartment.

Permanent installation of the 12V adapter

When conducting a permanent installation of the electrical connection to the 12V adapter (not through the cigarette lighter/12V outlet), keep in mind:

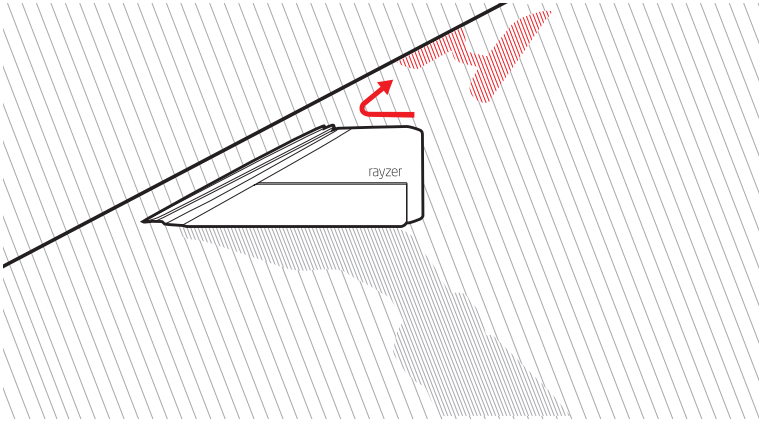
1. The electric circuit should go through a relay where the ignition activates the circuit. PLEASE NOTE: Activation does not go through the high beam connection.
2. The cables from the battery to the 12V adapter should be at least 1.5mm in diameter, although 2.5mm is recommended.

5
Attaching the Rayzer light unit

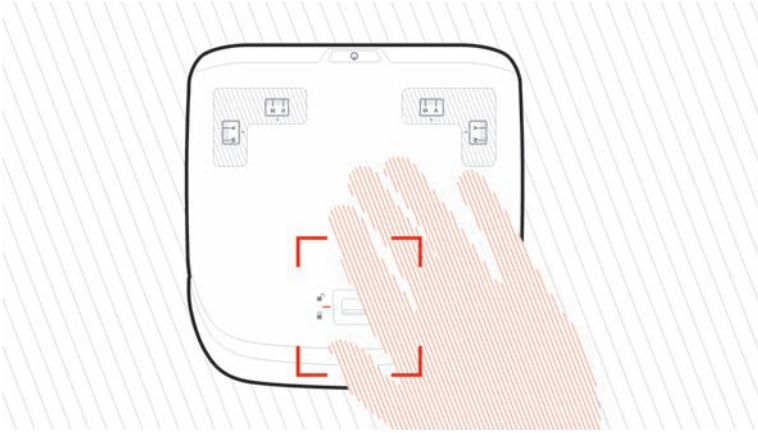
Attaching the light unit is best done from the driver's seat. First remove the plastic film that protects the lenses. Then hold the light unit in your right hand (**picture 4**) and move it carefully up towards the mounting bracket. Make sure that it "hooks" on to the guide pins of the bracket. Press carefully on the underside of the light unit in the vicinity of the release button (**picture 5**) until you hear a click. Check that the release button is in the "lock" position (**picture 6**). PLEASE NOTE: When your Rayzer is new, you may experience a slight "resistance" when you mount or remove the light unit. This is normal and indicates that the light unit is installed correctly.

Picture 4-6

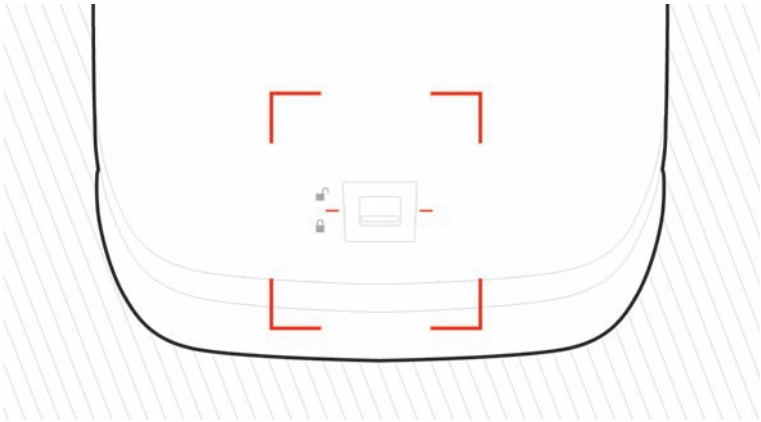
Picture 4



Picture 5



Picture 6



Getting started with Rayzer

Once the Rayzer has been properly assembled and mounted in your car, there are one or two points you should bear in mind before taking your car on the road. By following these simple instructions, you'll get the most out of your Rayzer.

The car must be started before you switch to high beams and activate Rayzer.

Synchronization

Rayzer is synchronized with the vehicle's high beams by a sophisticated wireless control system. The radio signal is encrypted to prevent the transmitter from interfering with other vehicles using Rayzer. The sender unit and Rayzer are automatically integrated the first time you switch to high beams and activate Rayzer. PLEASE NOTE: The high beams must be turned on within 10 seconds.

However, you can still use your Rayzer in other cars*. When moving the Rayzer to another car, simply mount the unit and switch on the high beams during the first ten seconds after you turn on the ignition. Rayzer will automatically recalibrate to this car's wireless system.

* Additional mounting brackets are available for purchase

Avoid extreme temperatures

The Rayzer works best at "normal" temperatures. In a worst-case scenario, extreme temperatures may affect its function. We therefore recommend that you do not leave your Rayzer in your parked car either on freezing winter days or in the heat of summer.

Using your Rayzer

Rayzer can become hot after prolonged driving. Avoid removing the unit immediately after driving.

- Reflector adjustment: The thumb-wheel on the underside of the Rayzer enables each reflector to be individually adjusted for height and breadth, ensuring that you can achieve optimum lighting conditions at all times. PLEASE NOTE: When you feel resistance, do not try to force the thumb-wheel further. For safety reasons, adjustments should

  be made only while the vehicle is at a standstill. If necessary, minor adjustments can be made while driving if traffic conditions allow.

- Indicator lamps: The 12V adapter (which is connected to the vehicle's 12V system) has three indicator lamps as well as an indicator light on the transmitter (see pictures):

  – Green lamp: Indicates that the 12V adapter is connected and ready to be taken into operation. If this light is not showing, then check the vehicle's 12V (cigarette lighter) outlet and fuses.

  – Orange lamp: Indicates when the Rayzer is on (high beams) and indicates contact between the transmitter unit and the light unit.
  If the lamp does not show on full beam, then the cable between the light unit and the 12V adapter might not be properly connected. If it is connected properly, then the fault may lie with the transmitter unit, which is also provided with an indicator lamp.
  If this lamp does not illuminate when you switch to high beams, then check to make sure that the transmitter unit cables have been properly connected. Otherwise, contact your retailer.

  – Red lamp: Indicates the 12V adapter has become overheated. To protect the electronic equipment, Rayzer temporarily shuts down. Generally, this does not happen until Rayzer has been in uninterrupted use for 40 minutes. Allow about five minutes for the adapter to cool sufficiently. The red light will switch off and Rayzer automatically turns back on.

We hope you enjoy your new Rayzer and find it very useful!

High beams only

High beams and Rayzer